Mantis™
Real-Time Locating System (RTLS)

RF CODE

Typical applications:

- Plant floor inventory counting and management

- Dynamically monitor and track valuable assets

- Automated monitoring of transport materials, pallets and containers

- Personnel locating

- Access control and automated monitoring

A fully automated, motion-activated, wireless means of data collection, the RF Code *MANTIS*™ system reliably tracks, locates and identifies assets. Ideal for:

- Asset security management

- Work-In-Process inventory management

- Pallet or container tracking

- Automated manifest

A comprehensive, three-part system:

MANTIS™ Tags are attached to the assets being tracked and emit 2 beacon signals; one in stationary mode and one that beacons at a faster rate when in motion. Benefits include:

- Motion activated tag reporting system

- High tag density capability per installation

- VHF band provides long-range visibility, even through walls

- Inexpensive – lowest cost and highest performing RTLS tag on the market

Visible Assets …..Invisible Tracking

MANTIS™ Readers are installed in a facility to identify and provide information in determining the location of Mantis™ tags.

- Wired or wireless LAN capability – instant installation

- Small footprint – mount readers anywhere

- Network appliance – sits on existing LAN

- Dual diversity antennas – high detection reliability

TAVIS™ is advanced platform Total Asset Visibility software that manages all readers. Records and logs tag ID, location and time stamp data. Smoothly interfaces with your legacy applications.

- Standards-based – SQL 2000 database interface

- Fault tolerance – for mission critical applications

- Scalable – for large or multi-site installations

Mantis
Real-Time Identification and Locating System

MANTIS™ Readers

Capabilities
- Simultaneous identification (collision avoidance): >500 tags @ 12.5 second beacon intervals
- Tag acquisition time: 1 beacon cycle
- Communication protocol: Ethernet or 802.11b wireless network option
- On-line range control: Full digital control of read range
- Operating frequency: 303.8MHz

Read Ranges
- Helical antenna: Up to 150'
- Omni angle antenna: Up to 350'
- YAGI antenna: Up to 1000'

Physical Characteristics
- Dimensions: 14" x 9" x 2"
- Weight: 4 lbs.
- Case: Aluminum powder coat protected
- Mounting: Ceiling or wall mount provision or desktop operation
- Optional enclosure available for NEMA4 applications

Environmental
- Operating temperature:
  0°C to 40°C (Wireless)
  -20°C to 55°C (Ethernet)

MANTIS™ Tags

Capabilities
- Motion activated
- Optional beacon intervals: 1 sec – 10 min.
- Operating frequency: 303.8MHz
- Group code & tag ID code: >1 trillion IDs
- Dimensions: 2.4" x 1.2" x 0.4"

Physical Characteristics
- Case: Heat reflective polycarbonate
- Durability: Tough, impact resistant and temperature stable

Environmental
- Operating temperature: -20°C to 60°C
- Splash resistant or optional waterproof case

Battery
- Battery type: Replaceable coin cell
- Battery life: 6-7 years with continuous 12.5 second beacon intervals

RF CODE